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Lee Co. 53-03

53031997

City of Sanford
Compost Facility
Permit Amendment



I. Permit Amendment

- A. Overflow Area Uses Now
- B. Overflow Area Uses Requested
- C. Exhibit A
- D. Detailed Processing Information
- E. Plant/Process Flow Diagram Map



The City of Sanford Compost Facility would request a permit amendment for overflow area marked "C" and "D" on Map (B-28-.0792) Site Plant/Process Flow Diagram located behind Detailed Processing information.

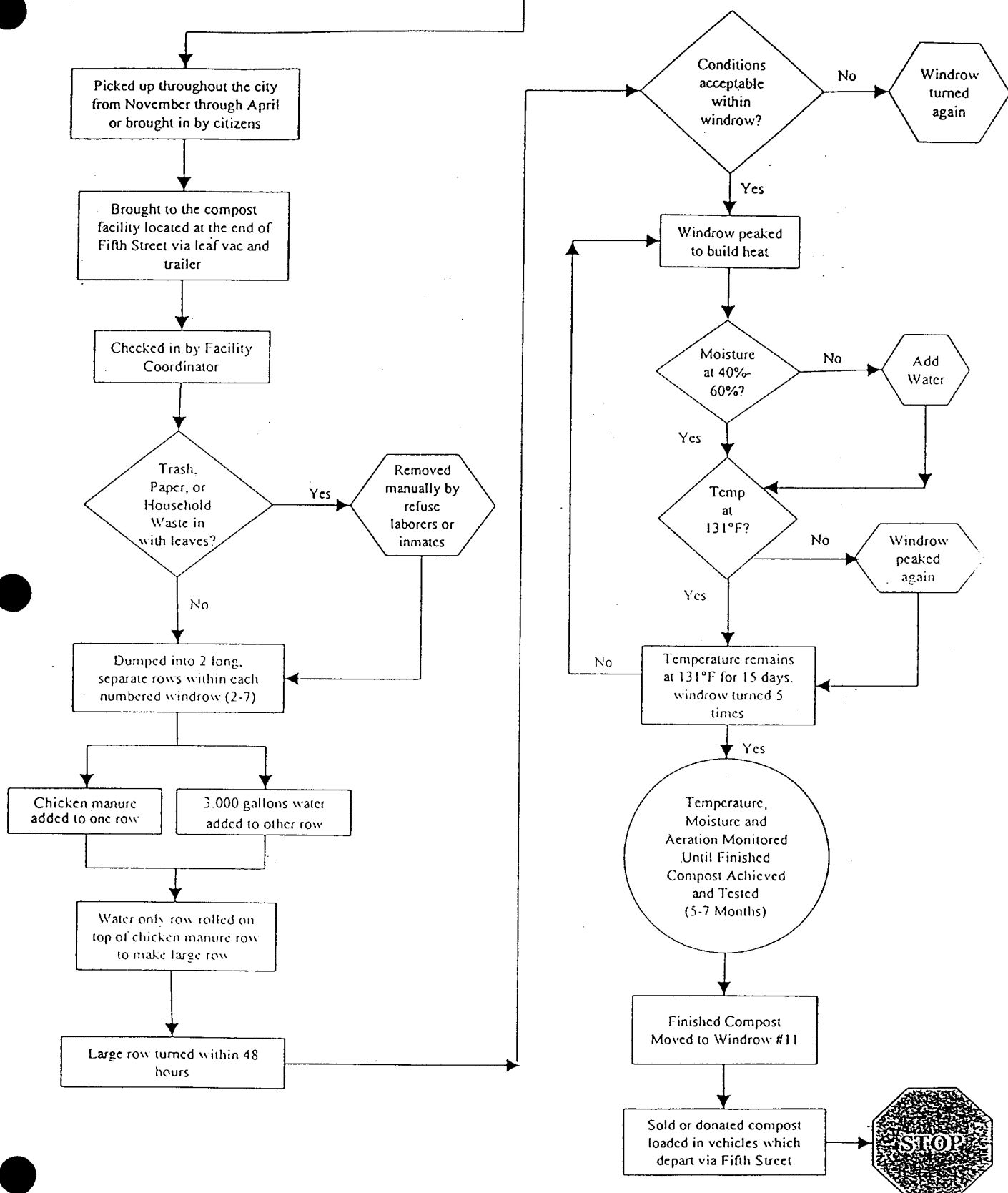
A. OVERFLOW AREA USES NOW

1. Right now Area II is labeled as an overflow area. Overflow meaning all limbs that cannot be stockpiled on grinding and staging area marked "B" on (site Plant/Process Flow diagram map).
2. A natural disaster would be the only use for this area. Currently this area is not being used and has not been used since Hurricane Fran in 1996.

B. OVERFLOW AREA USES REQUESTED

When permitted, overflow area will be used for the processing of four small windrows of leaves to be composted. This material will be processed in the same manner as all material composted at the City of Sanford Compost Facility (see attached document labeled Exhibit A for processing information. Also, see document marked Detailed Processing information.)

LEAVES



DETAILED PROCESSING INFORMATION

1. LEAVES (see flowchart marked Exhibit A attached)

A. Collection

1. The compostable materials are gathered by city crews from curbside.
2. Leaves are picked up throughout the city from November 1 through April 30 of each year.
3. Citizens of Sanford are allowed to bring their yard waste material to the Compost Facility as long as the yard waste is free from contaminants and checked in by the coordinator.

B. FORMATION AND MIXING OF WINDROWS

1. Leaves are brought in by leaf vac and trailer.
2. Leaves are dumped into two long, separate rows within each numbered windrow.
3. Approximately 8 loader buckets of chicken manure are then lightly sprinkled on one of the separate rows
4. Approximately 3,000 gallons of water are added to each of the separate rows prior to mixing.
5. The water-only row is then rolled on top of the row with the water and chicken manure which keeps moisture in and odors down.
6. This large row is then turned within 48 hours.

C. PEAKING

After turning, when conditions are acceptable within the windrow, the windrow shall be peaked (i.e., the loader is used by going into one side of the windrow and rolling it into a point on top of the other side) to build heat.

D. PROCESSING

1. The time required for composting leaves is 5-7 months.
2. Size of windrow and mixture must be correct before processing may begin.

3. Moisture must remain at 40% to 60%. To check, reach into pile with hand and pick some up and squeeze. If water runs out it is too wet; if it doesn't stick together it is too dry.
4. Temperature readings must be taken and documented 3 times per week.
 - a) When taking temperatures the first reading is taken at one end of the windrow, the second in the middle and the third at the other end of the windrow.
 - b) After all 3 temperatures are taken, they are averaged together to get a basic temperature for the windrow.
 - c) All temperatures must be at 131°F (55°C) or greater.
 - d) These temperatures shall be maintained in the windrow for at least 15 days.
5. During this high temperature period, the windrow must be turned at least 5 times to insure proper aeration.
6. Turning is done with the front end loader and a pull-behind TS 177-A Wildcat Compost Turner. This process is repeated until finished compost is achieved.

E. STOCKPILING

1. This procedure is done when there is an excess of finished compost and it is necessary for additional compost to be processed for future needs.
2. When stockpiling, the finished compost is taken from the windrows by the front end loader and loaded on the compost facility dump truck.
3. The compost is then trucked over to windrow #11 where it is dumped and later pushed into a large pile with the front end loader.

F. DISTRIBUTION

1. Distribution is done through the sale of compost or by donations to city departments, county, or state agencies, or non-profit organizations.
2. The customer pays for the compost at the Customer Service Department located in the Sanford Municipal Building (city hall).

3. The customer is given a receipt (either a white copy or an original), which is taken to the loader operator.
4. The loader operator then loads the paid-for material in the customer's vehicle.



PUBLIC WORKS DEPARTMENT

CITY OF SANFORD

P. O. BOX 3729
FAX 919-774-8179

North Carolina 27331-3729

TELEPHONE 919-775-8301
OR 919-775-8231

December 22, 1997

Mr. Ted Lyon, Supervisor
Composting and Land Application Branch
North Carolina NC Dept. Of Environment,
Health and Natural Resources
Division of Waste Management
P. O. Box 27687
Raleigh, NC 27611-7687

Dear Mr. Lyon:

RE: Application Requirements for
Large Type 3
Solid Waste Compost Facility

Enclosed is our application for a Large Type 3 Solid Waste Compost Facility. We apologize for the delay in getting this information to you, and hope this completes our application.

If you have any questions or need additional information, please call 775-8319.

Sincerely,

Larry Craig
Refuse Superintendent

LC/adm

Enclosures

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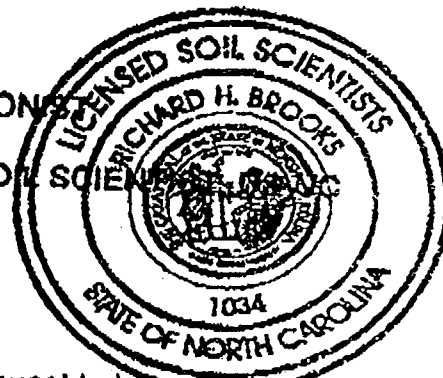
DEPARTMENT OF ENVIRONMENT AND NATURAL
RESOURCES- DIVISION OF SOIL AND WATER CONSERVATION:
REGIONAL SOIL SCIENTIST

TO: LAUREN MASSEY, DISTRICT CONSERVATION

FROM: RICHARD BROOKS, RALEIGH REGIONAL SOIL SCIENTIST

DATE: NOVEMBER 4, 1997

RE: CITY OF SANFORD COMPOST SITE



The following soils description is in response to your request to help the City of Sanford complete the permit package for a Type III compost facility.

The site, just north of Sanford, consists of Mayodan soils formed in Trassic sediment and is situated on a sideslope position ranging from 5 to 9 percent slopes. This site has previously been permitted as a compost site, but is in process of completing requirements to be designated as a Type III facility. The site is well compacted due to heavy equipment traffic. Between the compost beds are gravelled equipment paths. The soils on the site are as follows:

MAYODAN SOILS

A		Removed during original construction
Bt1	0-6"	7.5YR5/8(strong brown) clay loam with 2.5YR5/8(red) mottles, very firm, sticky, structure is almost massive due to compaction.
Bt2	2-27	2.5YR4/8(red) clay to clay loam with 7.5YR5/6(strong brown) mottles, firm, sticky, moderate medium subangular blocky structure.
Bt3	27-38	2.5YR4/8(red) clay loam, firm to friable, slightly sticky, weak medium subangular blocky structure.
BC	38-49+	2.5YR4/8(red), 7.5YR5/6(strong brown), 2.5YR8/4(light reddish brown), silty clay loam, friable, nonsticky, weak medium subangular blocky structure.

If I can be of further assistance, please let me know. (919-571-4700)

Windy Bryan
919-775-8231



PUBLIC WORKS DEPARTMENT

CITY OF SANFORD

P. O. BOX 3729
FAX 919-774-8179

North Carolina 27331-3729

TELEPHONE 919-775-8301

OR 919-775-8231

August 18, 1997

Mr. Ted Lyon, Supervisor
Composting and Land Application Branch
North Carolina NC Dept. Of Environment,
Health and Natural Resources
Division of Waste Management
P. O. Box 27687
Raleigh, NC 27611-7687

Dear Mr. Lyon:

RE: City of Sanford Yard Waste Facility Permit Application

In response to your letter dated July 22, 1997, indicating that our application was incomplete, attached are our responses to the items which you indicated required our attention. We hope this information completes our application.

If you have any questions or need additional information, please call 775-8319.

Sincerely,

Larry Craig
Refuse Superintendent

LC/adm

Enclosures



State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

William L. Meyer
Director

July 2, 1992

Victor I. Czar, PE
City Engineer
City of Sanford
PO Box 338
Sanford, North Carolina 27330

Ref: City of Sanford
Yard Waste Composting Facility
Permit Number 53-03-YW

Mr. Czar:

Enclosed please find a Solid Waste Permit and Conditions of the Solid Waste Permit for the above referenced yard facility.

This permit is for a five (5) year period from the date of issuance and approves the construction and operation of the above referenced facility. Ninety (90) days prior to the expiration date of the permit, the City of Sanford shall contact the Solid Waste Section for renewal of the permit. Based upon operational records and rules in effect at that time, changes may be required. If no changes are required, the Section will re-issue the permit for an additional five (5) years.

If you have any questions or require any assistance, please contact our office at (919) 733-0692.

Sincerely,

A handwritten signature in dark ink, appearing to read "William D. Sessoms", written over a horizontal line.

William D. Sessoms, PE
Solid Waste Section

Enclosures

copy: Terry Dover
Mark Fry



State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

William L. Meyer
Director

PERMIT 53-03-YW
July 2, 1992

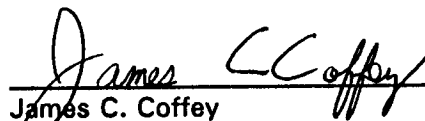
SOLID WASTE PERMIT

CITY OF SANFORD

is hereby issued a permit to operate a

YARD WASTE FACILITY

located at North Fifth Street, Sanford, Lee County, North Carolina in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit.


James C. Coffey
Permitting Branch
Solid Waste Section

SOLID WASTE PERMIT

CITY OF SANFORD

YARD WASTE FACILITY

CONDITIONS OF PERMIT

1. This permit is issued for a period not to exceed five (5) years from the date of issuance, and is for the construction and operation of the yard waste composting facility as set forth in the attached application. Ninety (90) days prior to the expiration date of this permit, the City of Sanford must notify the Solid Waste Section. Additional conditions or revisions to the approved plans or operations may be required by the Solid Waste Section in accordance with rules in effect at the time of review.

Amendments or revisions to the Solid Waste Management Rules or violation of surface water, ground water, or land quality standards may necessitate modification of construction, operation, or closure of this facility prior to the expiration date of this permit.

2. The facility is permitted receive "yard waste" as defined in 15A NCAC 13B .0100(65) to include stumps, limbs, leaves, grass, and untreated wood.
3. The facility shall be operated in a manner so as to prevent the creation of a nuisance, potential health hazard, or potential fire hazard.
4. The facility shall be operated in accordance with section .0904 of the Solid Waste Rules and the following specific conditions:
 - a. Site preparation and construction shall be in accordance with the approved site plan.
 - b. A sign shall be posted at the entrance containing the words "Yard Waste Only", the facility name, the permit number, the name of the owner, the name of the operator, the hours of operation, and emergency contact name and number.
 - c. Open burning of solid waste is prohibited.
 - d. If solid waste other than yard waste is left at the facility, it shall be separated and removed within seven (7) days.
 - e. Appropriate litter control measures shall be provided to confine material subject to be wind blown. All wind blown material shall be collected and properly disposed of by the owner or operator on a daily basis.
 - f. Yard waste must be removed from containers prior to composting or mulching, unless contained in bags, or in other materials, that have been approved by the Solid Waste Section for composting or mulching. All containers must be properly disposed of.
 - g. Revisions or modifications to the plans and operations must be approved by the Solid Waste Section.

5. Any water which comes in contact with solid waste shall be contained on-site or properly treated prior to discharge.
6. Effective management practices shall be employed to control flies, rodents, insects, vermin, or other vectors.
7. Fires and other non-conforming waste incidents shall be reported to the Regional Waste Management Specialist, within twenty-four (24) hours, followed by a written notification within fifteen (15) days.
8. All sedimentation and erosion control activities shall be conducted in accordance with the Sedimentation Control Act, 15A NCAC 4).
9. Dust control measures shall be utilized to minimize emissions.
10. Based upon operating performance, the Conditions of this Permit may be subject to revision.



PUBLIC WORKS DEPARTMENT

City of Sanford
North Carolina 27330

P.O. BOX 338

TELEPHONE 775-8231
or 775-8301

June 17, 1997

Mr. Ted Lyon
Supervisor
Composting and Land Application Branch
DEHNR
PO Box 27687
Raleigh, NC 27611-7687

Dear Mr. Lyon:

Enclosed is the request for the City of Sanford's Compost Facility permit renewal. We are requesting that the facility permit be renewed for five years.

The City operates a Type I facility, and we have addressed issues outlined in .1405 of the rules. The facility has served a great need in Sanford; we have sold out of all the available material every year. If you need any additional information, please feel free to contact me at (919) 775-8247.

Sincerely yours,

Larry Craig
Refuse Superintendent

wb

Enclosure

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director



May 1, 1997

Mr. Larry Craig
Refuse Superintendent
City of Sanford
601 North 5th Street
Sanford, North Carolina 27330

Dear Mr. Craig:

The Division of Waste Management has received your letter requesting that the City of Sanford yard waste facility permit be renewed for another 5 years. In order to have a permit renewed, it is necessary for a properly completed permit application to be submitted.

Sanford's yard waste facility was originally permitted under Section .0900 of the Solid Waste Management Rules. In 1996, Section .0900 was combined into Section .1400 resulting in the NC Solid Waste Compost Rules. A copy is enclosed for your use.

An application form is not available for compost facility permits. Application requirements are included in .1405 of the rules. If your facility only accepts yard waste it would be classified as a Type 1 facility in the rules. Facility classifications are explained in .1402 of the rules.

If I can be of further assistance to you in this matter, please do not hesitate to contact me at 919-733-0692, extension 253.

Sincerely,

Ted Lyon, Supervisor
Composting and Land Application Branch

TL/bjs

cc: Mark Fry

P.O. Box 27687,
Raleigh, North Carolina 27611-7687
Voice 919-733-4996



FAX 919-715-3605
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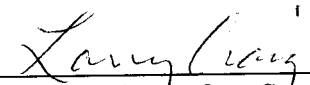
Mr. Ted Lyon
Solid Waste Section
P.O. Box 29603
Raleigh, N.C. 27611

Dear Mr. Lyon,

The City of Sanford operates a yard waste composting facility under permit # 53-03-YW. This permit was issued in July of 1992. It was for five years and runs out this July. It stated that ninety days (90) prior to the expiration of the permit that the city needed to contact the solid waste section to renew this permit. We are requesting that our permit be renewed for an additional five (5) years.

If you have any questions or require any further information, please contact me at (919) 775-8247.

Sincerely,


Larry Craig, Refuse Supt.
City of Sanford

copy: Mark Fry